Portland, Oregon 97204 Telephone: 503/226-7391

FIG. 1

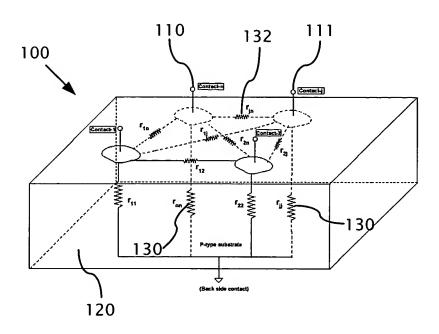
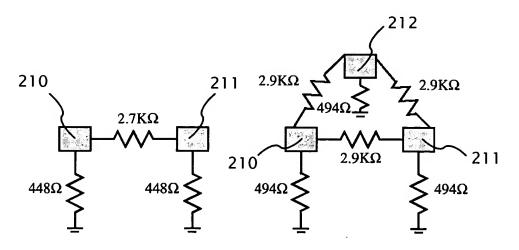


FIG. 2A

FIG. 2B



Suite 1600

Portland, Oregon 97204 Telephone: 503/226-7391 Our Ref. No. 245-66956 For: MODELING SUBSTRATE

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FIG. 3

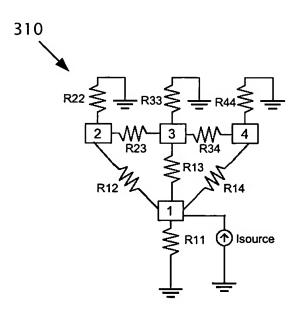
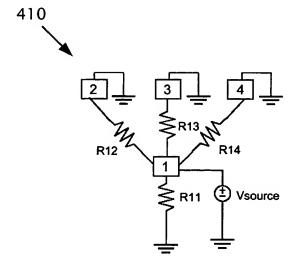
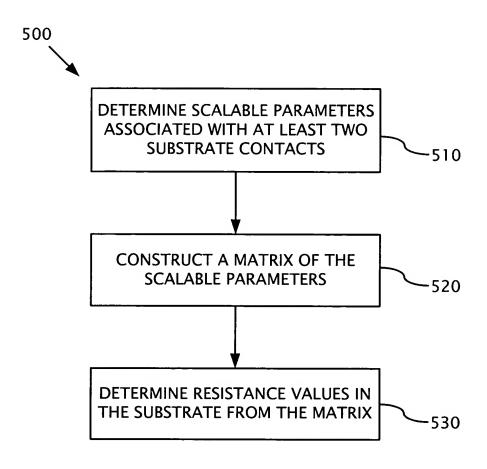


FIG. 4



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FIG. 5



Portland, Oregon 97204 Telephone: 503/226-7391

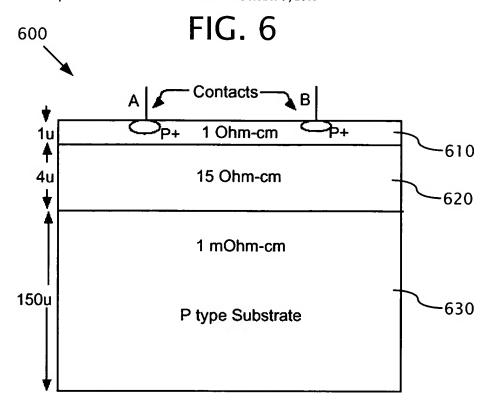
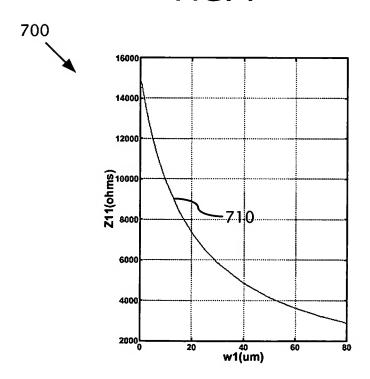
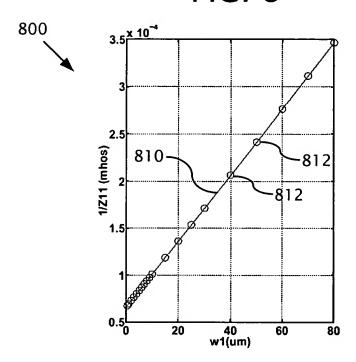


FIG. 7

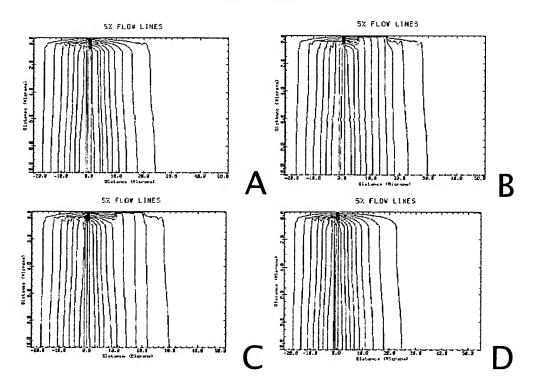


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FIG. 8

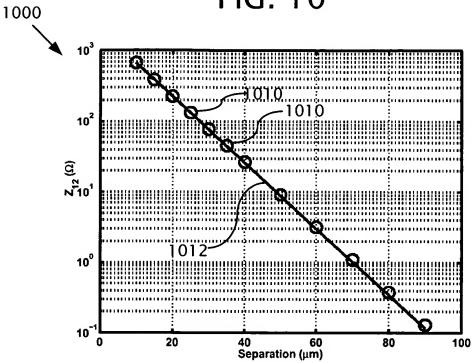


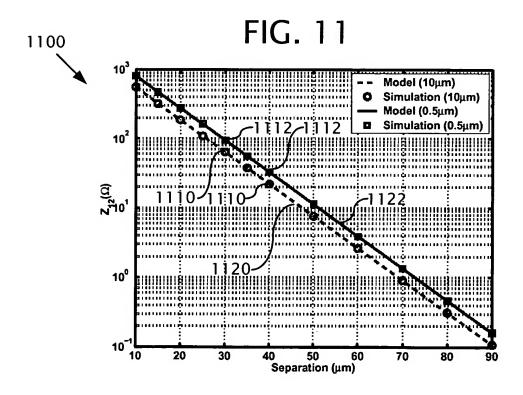
FIGS. 9A-D



Portland, Oregon 97204 Telephone: 503/226-7391

FIG. 10

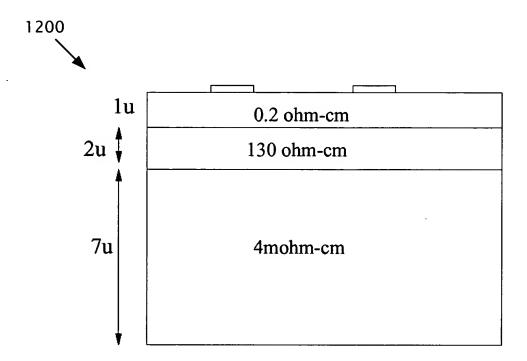


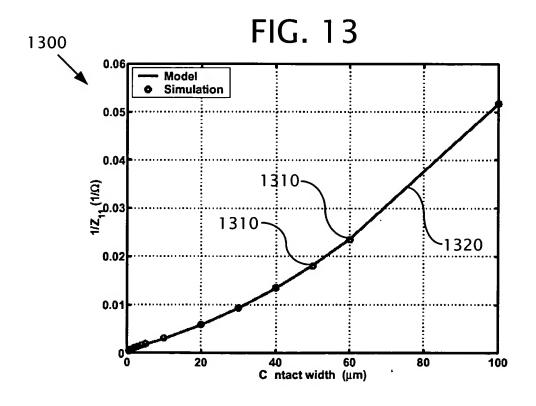


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FIG. 12





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FIG. 14

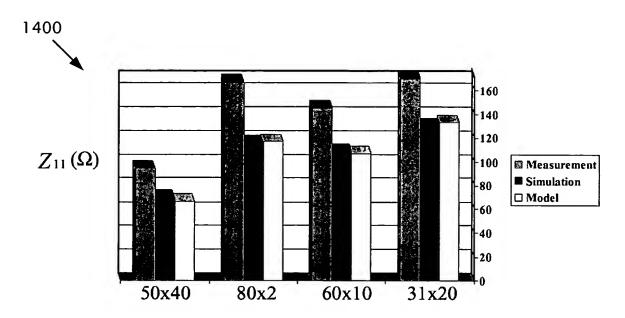
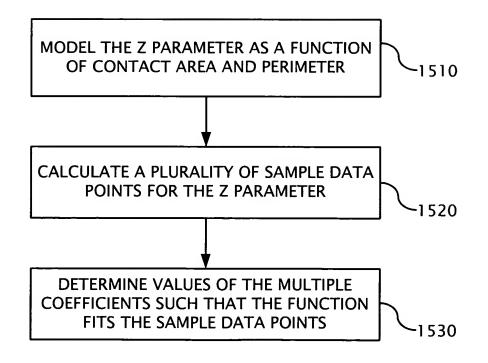


FIG. 15



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FIG. 16

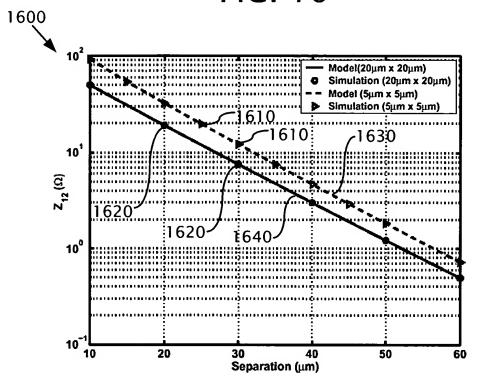
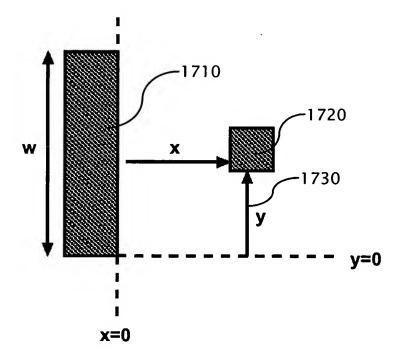
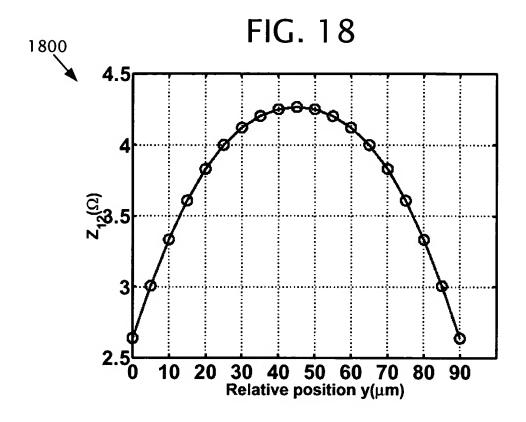


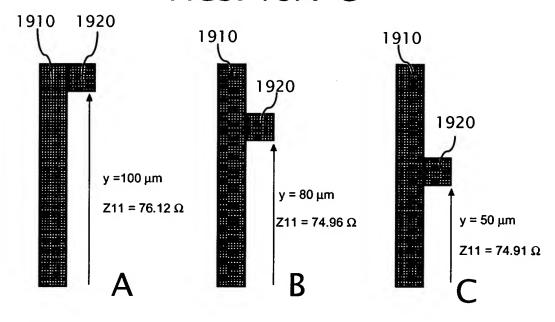
FIG. 17



Portland, Oregon 97204 Telephone: 503/226-7391 Our Ref. No. 245-66956
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FIGS. 19A-C



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For: MODELING SUBSTRATE
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SCALABLE PARAMETERS

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FIG. 20A

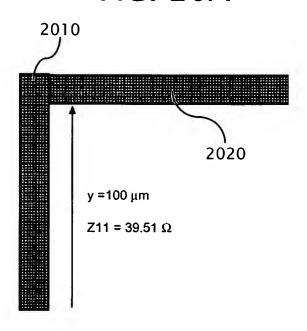
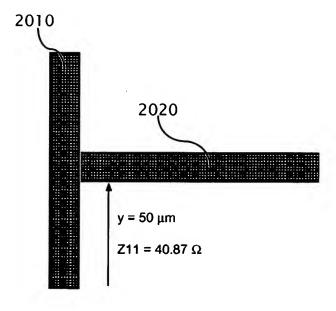


FIG. 20B



Portland, Oregon 97204 Telephone: 503/226-7391 Our Ref. No. 245-66956
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SCALABLE PARAMETERS
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2100

FIG. 21

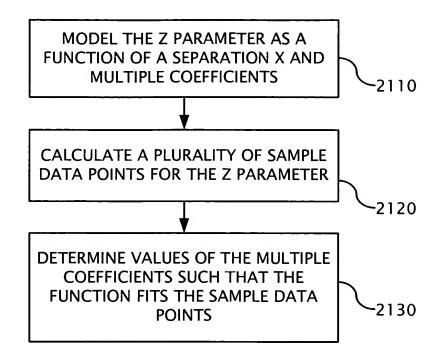
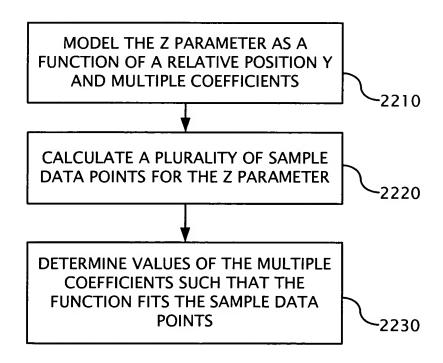




FIG. 22



Patrick M. Bible Klarquist Sparkman et al 121 SW Salmon Street Suite 1600 Portland, Oregon 97204

Telephone: 503/226-7391

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SCALABLE PARAMETERS
Express Mail No. EV339201219US

FIG. 23

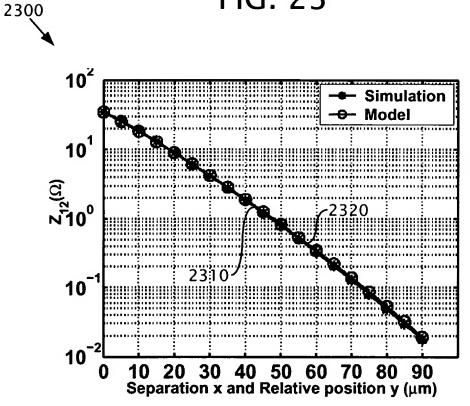
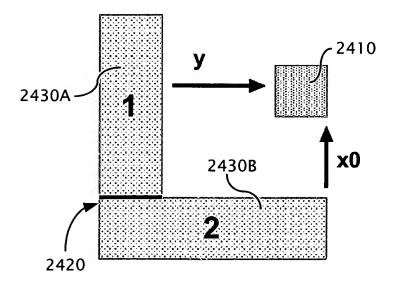


FIG. 24



Portland, Oregon 97204 Telephone: 503/226-7391 Our Ref. No. 245-66956
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FIG. 25

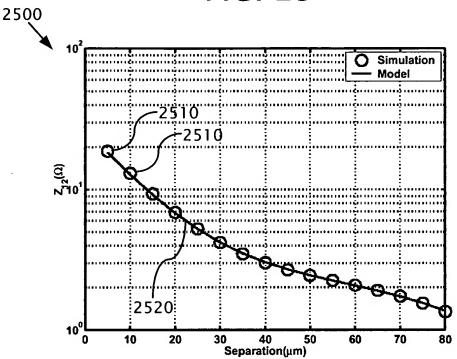
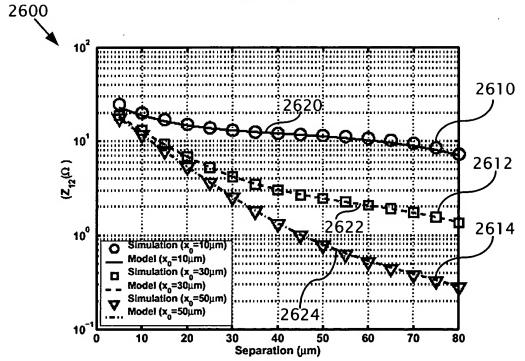


FIG. 26



Patrick M. Bible Klarquist Sparkman et al 121 SW Salmon Street Suite 1600 Portland, Oregon 97204

Portland, Oregon 97204 Telephone: 503/226-7391

FIG. 27

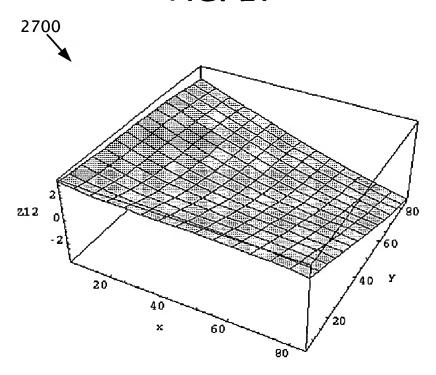


FIG. 28

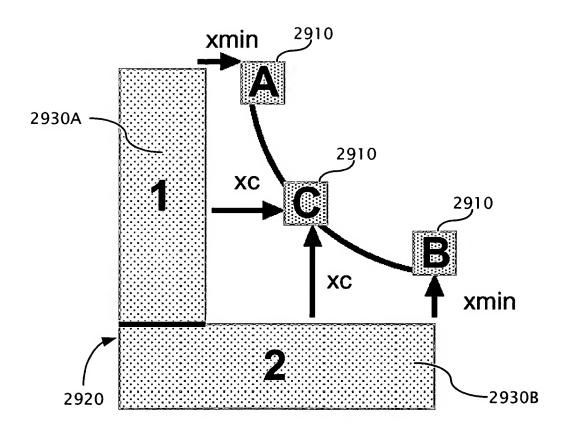
80

60

2810

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FIG. 29



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Telephone: 503/226-7391

FIG. 30

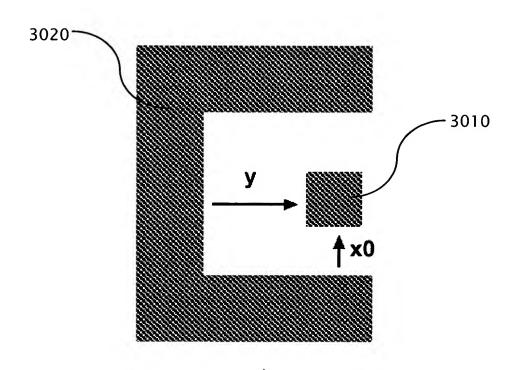
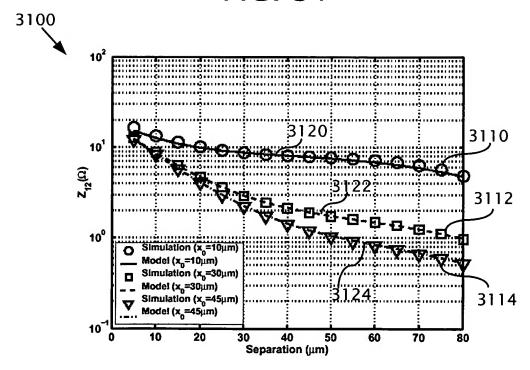
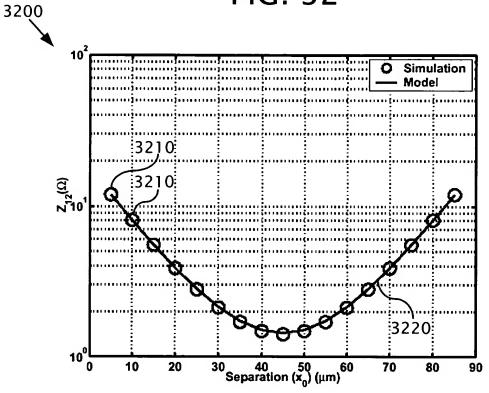


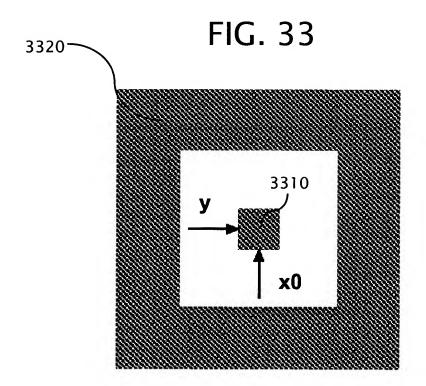
FIG. 31



Portland, Oregon 97204 Telephone: 503/226-7391

FIG. 32





Portland, Oregon 97204 Telephone: 503/226-7391

3400



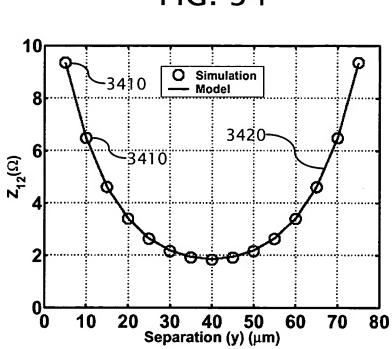
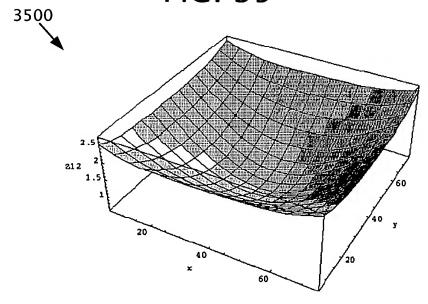


FIG. 35



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Telephone: 503/226-7391

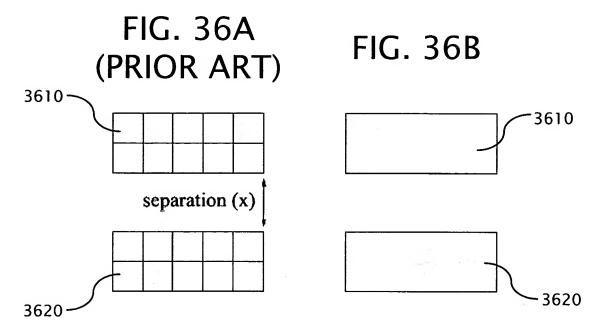
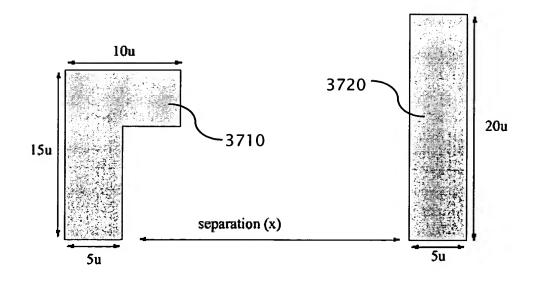
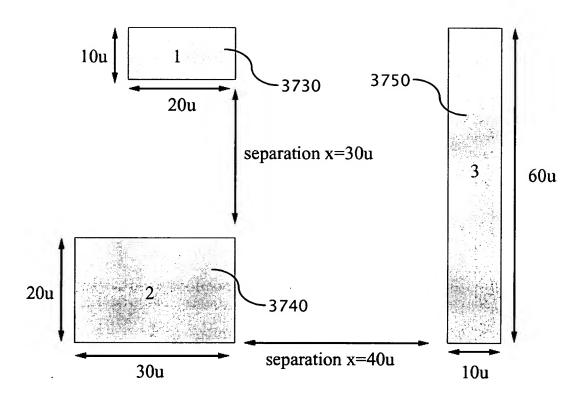


FIG. 37A



Suite 1600 Portland, Oregon 97204 Telephone: 503/226-7391

FIG. 37B



Portland, Oregon 97204 Telephone: 503/226-7391 Our Ref. No. 245-66956 For: MODELING SUBSTRATE NOISE COUPLING USING **SCALABLE PARAMETERS**

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FIG. 38 (PRIOR ART) 3810 3830 Z11 n1xn1

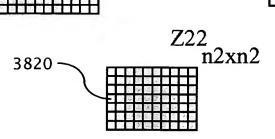
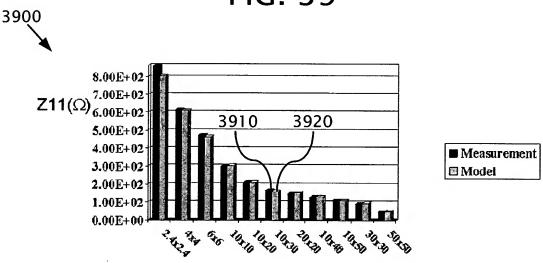


FIG. 39



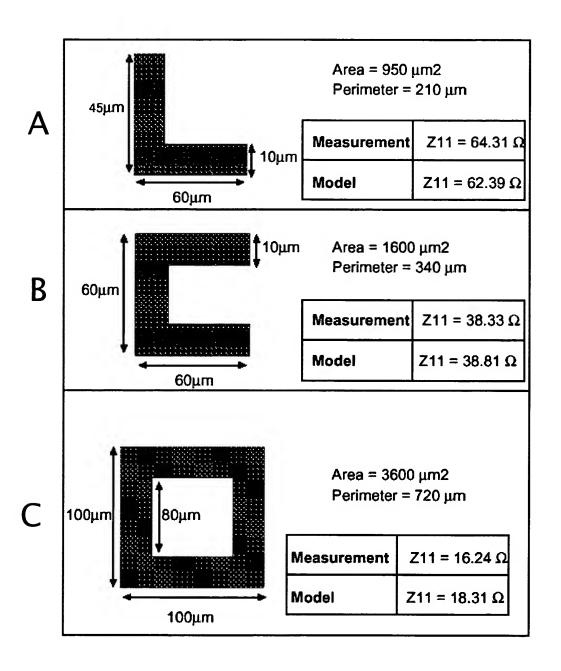
Contact Dimensions (µm)

Portland, Oregon 97204 Telephone: 503/226-7391 Our Ref. No. 245-66956

For: MODELING SUBSTRATE NOISE COUPLING USING SCALABLE PARAMETERS

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FIGS. 40A-C



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For: MODELING SUBSTRATE

NOISE COUPLING USING

SCALABLE PARAMETERS

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FIG. 41

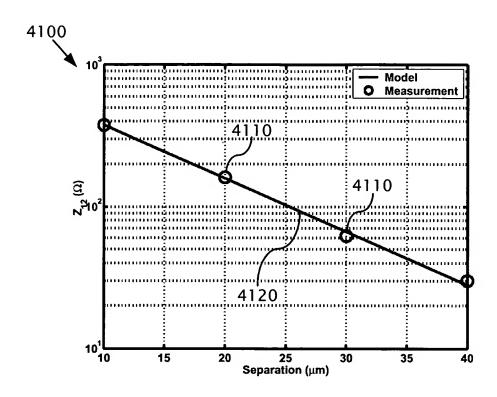
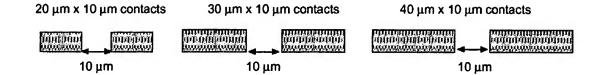


FIG. 42



Portland, Oregon 97204 Telephone: 503/226-7391 Our Ref. No. 245-66956
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FIG. 43



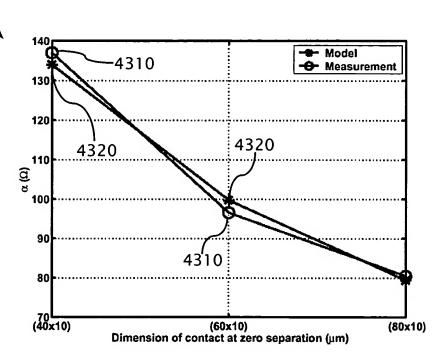
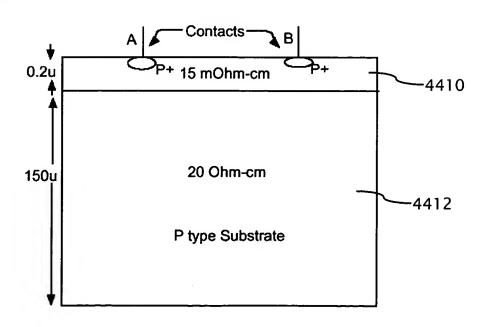




FIG. 44



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4500

FIG. 45A

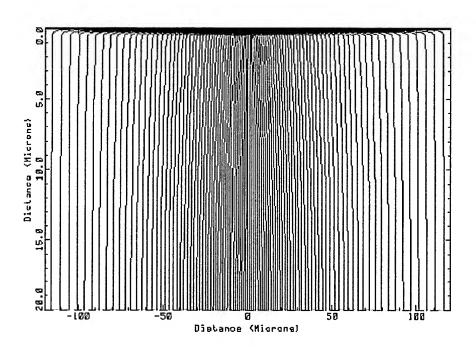
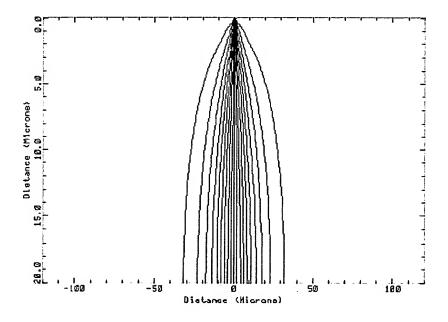




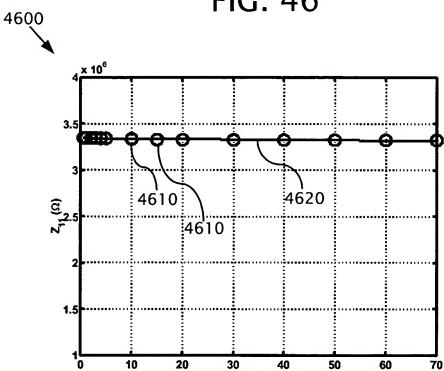
FIG. 45B



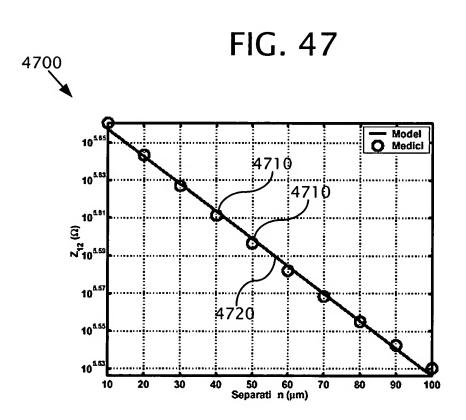
Portland, Oregon 97204 Telephone: 503/226-7391 Our Ref. No. 245-66956
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NOISE COUPLING USING
SCALABLE PARAMETERS
Express Mail No. EV339201219US

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FIG. 46



Dimension of source (µm)



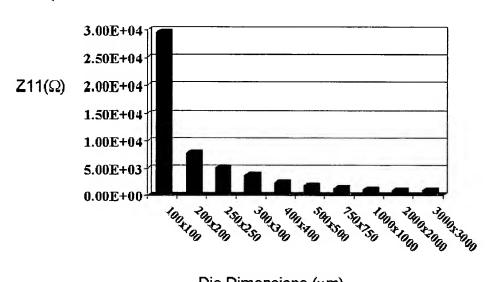
Portland, Oregon 97204 Telephone: 503/226-7391 Our Ref. No. 245-66956
For: MODELING SUBSTRATE
NOISE COUPLING USING

SCALABLE PARAMETERS Express Mail No. EV339201219US

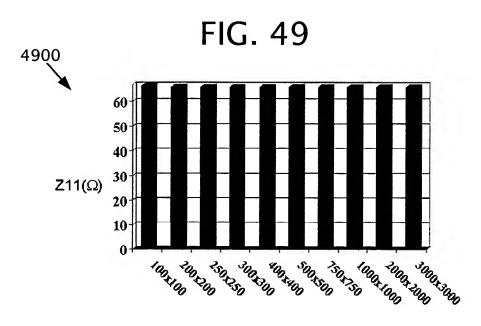
Mailed: October 9, 2003

FIG. 48





Die Dimensions (µm)



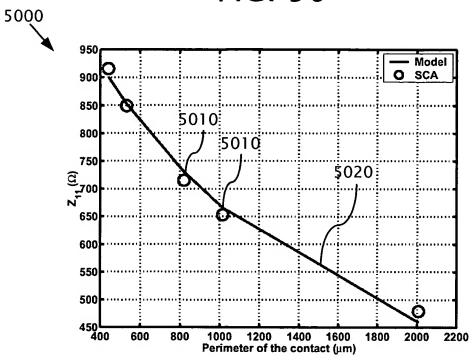
Die Dimensions (µm)

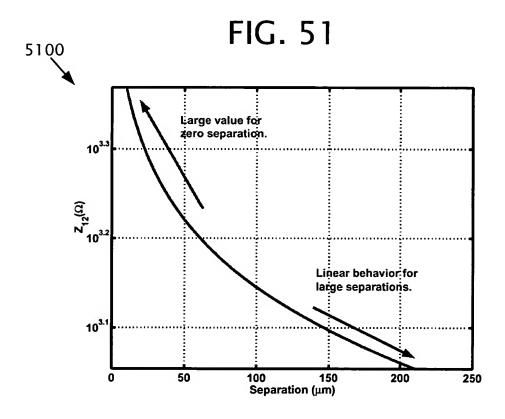
Suite 1600 Portland, Oregon 97204

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FIG. 50





Portland, Oregon 97204 Telephone: 503/226-7391 Our Ref. No. 245-66956 For: MODELING SUBSTRATE

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FIG. 52

